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**Närdemann et al.**(10) **Pub. No.: US 2020/0011394 A1**(43) **Pub. Date: Jan. 9, 2020**(54) **SHOCK ABSORBER WITH POSITION  
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**ABSTRACT**

Example aspects relate to a shock absorber with a position sensor, and a method to produce it. The shock absorber comprises a first and second damper part, which are arranged movable relative to each other in a longitudinal direction L. A position sensor is arranged to detect the relative position of the first damper part to the second damper part, and comprises an index element on the first damper part as well as an electric detection circuit for detecting the position of the index element. A flexible sleeve is at least partially arranged around the first and/or the second damper part and fixed relative to the second damper part. To enable a particularly simple design, the detection circuit is attached to the flexible sleeve.

